

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085968 A1

(51) International Patent Classification⁷: **G05D 1/02**,
E02F 3/84, G08G 1/23

a/S (CH). SCHNEIDER, Klaus [AT/AT]; Bahngasse 15b,
A-6850 Dornbirn (AT).

(21) International Application Number:
PCT/EP2005/050986

(74) Agent: **KAMINSKI, Susanne**; Büchel Kaminski & Part-
ner, Austrasse 79, 9490 Vaduz (LI).

(22) International Filing Date: 4 March 2005 (04.03.2005)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

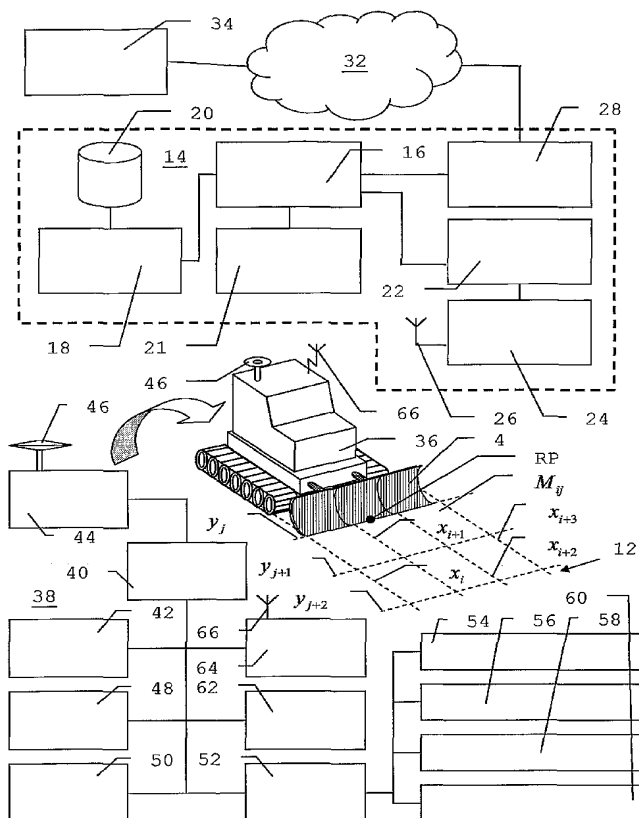
(30) Priority Data:
04100887.1 4 March 2004 (04.03.2004) EP

(71) Applicant (*for all designated States except US*): **LEICA
GEOSYSTEMS AG** [CH/CH]; Heinrich-Wild-Strasse,
CH-9435 Heerbrugg (CH).

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: METHOD AND APPARATUS OF MANAGING WIRELESS COMMUNICATION IN A WORKSITE



(57) Abstract: A method of controlling wireless messaging between mobile apparatuses and an onsite office in a worksite comprises the steps of: dividing the worksite area into elementary cells (C) mapped in correspondence with the topology of the area and into and communication zones (CZ), for a given communication zone of the worksite, establishing at least one updatable communication attribute value pertaining to a parameter of wireless communication to or from the given cell or communication zone, for a given elementary cell, establishing at least one worksite management attribute value of the worksite at that cell, the worksite management attribute value pertaining to a parameter other than a wireless communication parameter, storing, in an electronic memory (20), values of the worksite and communication attributes, each stored attribute value being electronically indexed to the elementary cell, or to the communication zone, for which it was determined, forming a worksite management message with an electronically readable content containing at least one worksite management attribute value, accessing the memory to obtain at least one current communication attribute value in respect of a cell or communication zone to or from which the formed management message is to be communicated by a wireless communication, and establishing a wireless communication to or from the communication zone to send or receive the management message on the basis of the current communication attribute value(s) electronically accessed from the memory.

WO 2005/085968 A1



FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*